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**EE/CprE/SE 491 WEEKLY REPORT 14**

**10/12/23 - 10/25/23**

**Group number: 4**

**Project title: CLARE: The Lab Availability Tracker**

**Client &/Advisor: Mohamed Selim/Ahmed Nazar**

**Team Members/Role:**

**Evan Uhlmeyer - Meeting leader**

**Frank Sullivan - Team website manager**

**Jorge Ortiz - Main client contact**

**Tyler Rolston - ETG and external contact**

**Joel Neppel - Course assignment manager**

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○ **Weekly Summary**

- Improved website design
- Created automation scripts to update the data on BudiBase
- Trained and compared different ML models

○ **Past week accomplishments**

- Evan Uhlmeyer
  - Set up a table in the database to hold specific computers being tracked
  - Created a relationship between computer table and lab table
  - Created query on BudiBase which can get computers for specific lab
  - Began research on easy ways to handle http in python
- Tyler Rolston
  - Development of inotify app
- Joel Neppel
  - Completed setting up the locally hosted BudiBase
  - Refined the home screen
  - Created a generic lab room page
  - Made various SQL queries for checking if a lab is in progress and updating the database through the BudiBase API
  - Wrote a Python script to update the class schedules each semester

- Frank Sullivan
  - Created Python script for updating lab occupancy
  - Formatted dataset annotations for use in ML training
  - Compared ML confidence between models
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- Jorge Ortiz
  - Researched LTI key generation in Canvas
  - Looked into getting appointment with CELT regarding LTI key
  - Researched Budibase OIDC integration

## Individual contributions

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Joel Neppel	Automation	15	61
Jorge Ortiz	LTI key, budibase OIDC research	12	60
Tyler Rolston	Login tracking software	5	39
Frank Sullivan	Python script, dataset configurations	7	44
Evan Uhlmeier	Database editing, table creation, relationship and query Research for http handling	4	44

### ○ Plans for the upcoming week

- Evan Uhlmeier
  - Find a more efficient way to populate the computers table with the computers in Coover
  - Figure out exactly how remote tracked PCs will communicate with server
  - Begin Windows logon tracking
- Tyler Rolston
  - Complete first version of inotify app
  - Begin designing integration with web app
- Joel Neppel
  - Improve website GUI
- Frank Sullivan
  - Write bash script to call other Python scripts
  - Train new ML models
  - Investigate creating dataset annotations for validating lab images
- Jorge Ortiz
  - Contact CELT regarding LTI key
  - Figure out OIDC
  - Try and get OIDC integration